1007

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AIR POLLUTION REPORT
FEDERAL FACILITIES

METROPOLITAN CLEVELAND INTRASTATE

AIR QUALITY CONTROL REGION

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Environmental Health Service
National Air Pollution Control Administration

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The status is presented of the Federal facilities in the Region with regard to implementation of the objectives prescribed by the Clean Air Act and Executive Order 11507. Quantitative data on fuel burning and refuse disposal practices, air pollutant emissions, and abatement plans are included. A summary by county of fuel-use by type -- coal, fuel oil, natural gas-- is presented.

17. Key Words and Document Analysis. 17a. Descriptors

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Inventories
Exhaust Emissions
Fuels
Refuse Disposal
Abatement
Urban Areas
National Government
Coal
Fuel Oil
Natural Gas
Sulfur Oxides
Nitrogen Oxides
Carbon Monoxide
Particles
Hydrocarbons
Boilers

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AIR QUALITY CONTROL REGION

GARY D. YOUNG

FEDERAL FACILITIES BRANCH
DIVISION OF ABATEMENT
NATIONAL AIR POLLUTION CONTROL
ADMINISTRATION

APRIL 1970

TABLE OF CONTENTS

		PAGE
NARRATIVE		1
FIGURE 1.	MAP OF AIR QUALITY CONTROL REGION	2
TABLE I.	FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES	3
TABLE II.	ANNUAL FUEL USE BY FEDERAL FACILITIES	29
TABLE III.	FEDERAL CONTRIBUTION TO AIR POLLUTION	30
TABLE IV.	FEDERAL POINT SOURCES	31
TABLE V.	COAL-FIRED BOILERS IN VIOLATION OF 42 CFR 76.4	32
TABLE VI.	ABATEMENT PROGRAM FOR FEDERAL PROBLEM AREAS	33
TABLE VII.	POLLUTANT REDUCTION GOALS	36
REFERENCES AND NOTES		37

NARRATIVE

On May 23, 1969, the Metropolitan Cleveland Intrastate Air Quality Control Region was designated pursuant to section 107(a) of the Clean Air Act, as amended. The Region consists of Cuyahoga, Geauga, Lake, Lorain, Medina, Portage, Stark, and Summit counties (Figure 1).

This report presents the current status of the Federal facilities in the Region with regard to implementation of the objectives prescribed by the Clean Air Act and Executive Order 11507. Quantitative data on fuel burning and refuse disposal practices, air pollutant emissions, and abatement plans are included. The data in this report reflect that most recently available.

Table I lists the 130 Federal facilities in the Region along with data concerning both fuel burning and refuse disposal practices for each. A summary by county of fuel-use by type -- coal, fuel oil, natural gas-- is presented in Table II.

The Federal facilities in the Metropolitan Cleveland Intrastate Air Quality Control Region emit annually a total of 1500 tons of sulfur oxides (SOX), 450 tons of nitrogen oxides (NOX), 190 tons of carbon monoxide (CO), 1300 tons of particulates (PART), and 40 tons of hydrocarbons (HC). These emissions, as summarized in Table III, contribute slightly less than 1% of the particulates and carbon monoxide and a negligible quantity of sulfur oxides emitted from all fuel combustion sources in the area.

Table IV lists Federal sources which emit more than 100 tons of any pollutant each year (point sources). These three sources - Brecksville VA Hospital, NASA's Lewis Research Center, Ravenna Army Ammunition Plant - account for nearly all the air pollution emanating from Federal facilities in the Region.

Eight coal-fired boilers in the Region, as listed in Table V, are in violation of the particulate emissions limitations in Federal regulations (Title 42, Part 76.4, Sections (7) and (8)).

Eleven Federal facilities, listed in Table VI, reported air pollution problems and/or proposed abatement measures in their 1967 - 1972 five-year abatement plans. Of the eleven, two have reported their problems as solved, three are in the process of developing solutions, and six have not as yet submitted plans. Table VII is a quantitative summary of the pollutant reductions which will be realized when the abatement measures described in Table VI are completed.

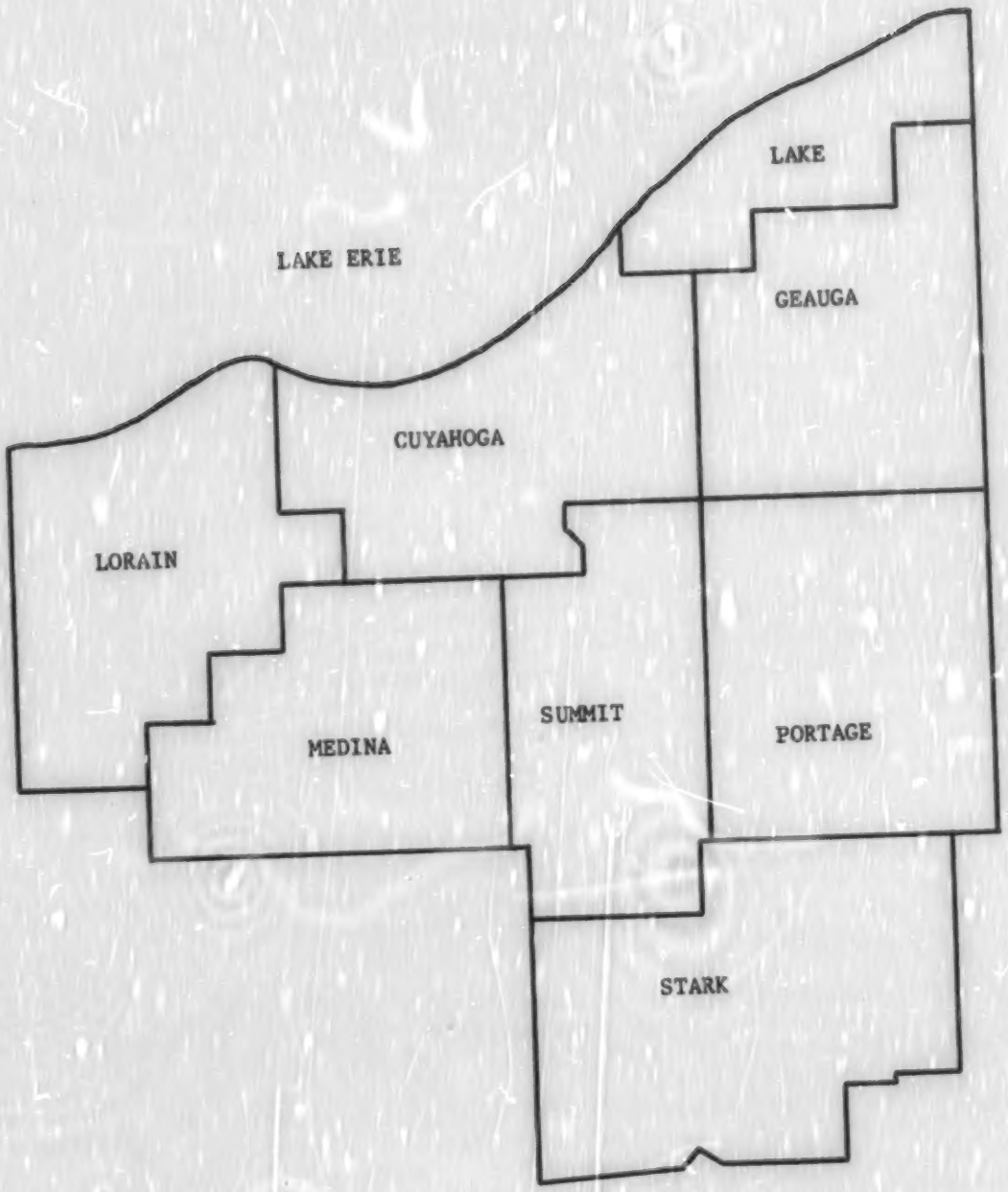

FIGURE 1

METROPOLITAN CLEVELAND INTRASTATE

AIR QUALITY CONTROL REGION

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO CUYAHOGA BEDFORD							
PO BROADWAY AVENUE	0.	0.	1135.	0.	0.	0.	REFUSE COLLECTED
OHIO CUYAHOGA BEREA							
PO SEMINARY STREET	0.	0.	1072.	0.	0.	0.	REFUSE COLLECTED
OHIO CUYAHOGA BRECKSVILLE							
VA HOSPITAL	0.	100.	0.	0.	0.	9732.	S=2.7% A=7.0%
FAA RCAG	0.	0.	0.	0.	0.	0.	REMOTE EQUIPMENT

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA ARSR	0.	0.	0.	0.	0.	0.	LONG RANGE RADAR
FAA H	0.	0.	0.	0.	0.	0.	HOMING BEACON
OHIO CUYAHOGA BROOKPARK							
FAA MM	0.	0.	0.	0.	0.	0.	MIDDLE MARKER
FAA MM	0.	0.	0.	0.	0.	0.	MIDDLE MARKER
FAA GS	0.	0.	0.	0.	0.	0.	VERTICAL GUIDANCE

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA H	0.	0.	0.	0.	0.	0.	HOMING BEACON
OHIO CUYAHOGA CHAGRIN FALL							
PO WASHINGTN STREET	0.	0.	652.	0.	0.	0.	REFUSE COLLECTED
OHIO CUYAHOGA CLEVELAND							
NAVY RESERVE TRAINING CTR	0.	0.	3788.	0.	0.	0.	REFUSE COLLECTED
ARMY TANK AUTOMOTIVE	0.	23000.	0.	1500000.	0.	0.	
ARMY RESERVE CENTER-GRFLD	0.	0.	0.	20994.	0.	0.	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ARMY SUPPORT FACILITY	0.	0.	315380.	0.	0.	0.	REFUSE COLLECTED
NIKE 48	0.	0.	0.	0.	0.	0.	VACATED BY THE ARMY
NIKE 69	0.	0.	7500.	0.	0.	0.	REFUSE COLLECTED
NIKE 02	0.	0.	5490.	660.	0.	0.	REFUSE COLLECTED
NIKE 34	0.	0.	10786.	0.	0.	0.	REFUSE COLLECTED
ARMY RESERVE CENTER-HARVD	0.	0.	3754.	0.	0.	0.	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIS. OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
AF PLANT 47	0.	0.	0.	0.	0.	0.	ALCOA SUPPLY STEAM
COE WHARF STORAGE SITE	0.	0.	3400.	0.	0.	0.	REFUSE COLLECTED
COE CUYAHOGA RIVER PIERS	0.	0.	0.	0.	0.	0.	NO PROBLEMS
COE BREAKWTR PROJECT	0.	0.	0.	0.	0.	0.	NO PROBLEMS
PO PROSPECT AVENUE	0.	0.	0.	0.	0.	0.	PURCHASE STEAM
PO STATION A LORAIN AVE	0.	0.	1640.	0.	0.	0.	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
PO PEARL ROAD	0.	0.	1100.	0.	0.	0.	REFUSE COLLECTED
PO EUCLID AVENUE	0.	0.	0.	0.	0.	45.	S=0.62% A=5.80%
PO E 105TH STREET	0.	0.	1167.	0.	0.	0.	REFUSE COLLECTED
PO WARREN ROAD	0.	0.	0.	0.	0.	114.	S=0.62% A=5.80%
PO BROADWAY AVENUE	0.	0.	1501.	0.	0.	0.	REFUSE COLLECTED
PO E 101ST STREET	0.	0.	0.	0.	0.	89.	S=0.62% A=5.80%

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
PO WEST PARK STATION	0.	0.	0.	0.	0.	122.	S=0.62% A=5.80%
VA HOSPITAL	0.	150.	174000.	0.	36000.	0.	SCRUBBER ON INCINERATOR
GSA PO & COURTHOUSE	0.	0.	0.	0.	0.	0.	PURCHASE STEAM
GSA GARAGE SITE	0.	0.	0.	0.	0.	0.	NO PROBLEMS
FOB SITE	0.	0.	0.	0.	0.	0.	PURCHASE STEAM
USCG MOORING	0.	60.	2670.	0.	0.	0.	SEVERAL SMALL UNITS

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
USCG WEST PHD LIGHT	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID
USCG OFFICE	0.	0.	0.	0.	0.	0.	PART OF FEDERAL BLDG
USCG STATION	0.	0.	0.	25240.	0.	0.	REFUSE COLLECTED
FAA ASR	0.	0.	0.	0.	0.	0.	SHORT RANGE RADAR
FAA VOR	0.	0.	0.	0.	0.	0.	DIRECTION FINDER
FAA ALSF	0.	0.	0.	0.	0.	0.	APPROACH LIGHT SYSTEM

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA ALSF	0.	0.	0.	0.	0.	0.	APPROACH LIGHT SYSTEM
FAA FSS	0.	0.	0.	0.	0.	0.	FLIGHT SERVICE
FAA MERF	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID
FAA ASDE	0.	0.	0.	0.	0.	0.	SURFACE DETECTION
FAA VASI	0.	0.	0.	0.	0.	0.	LIGHTING SYSTEM
FAA RUNEL	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA RUNEL	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID
FAA RT	0.	0.	0.	0.	0.	0.	REMOTE TRANSMITTER
FAA RT	0.	0.	0.	0.	0.	0.	REMOTE TRANSMITTER
FAA LOC	0.	0.	0.	0.	0.	0.	HORIZONTAL GUIDANCE
FAA LOC	0.	0.	0.	0.	0.	0.	HORIZONTAL GUIDANCE
FAA GS	0.	0.	0.	0.	0.	0.	VERTICAL GUIDANCE

TABLE I

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LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA H	0.	0.	0.	0.	0.	0.	HOMING BEACON
FAA RTR	0.	0.	0.	0.	0.	0.	TRANSMITTER/ RECEIVER
LEWIS RESEARCH CTR	0.	320.	636724.	520300.	0.	9432.	REFUSE COLLECTED
OHIO CUYAHOGA GARFIELD HTS							
NATIONAL GUARD	0.	0.	0.	0.	0.	0.	GIVEN TO BOARD OF EDU
OHIO CUYAHOGA GATES MILLS							
USCG RADIO STATION	0.	0.	0.	0.	0.	0.	NOT IN OPERATION

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO							
CUYAHOGA							
OLMSTEAD FLS							
FAA OM	0.	0.	0.	0.	0.	0.	OUTER MARKER
OHIO							
CUYAHOGA							
PARMA							
ARMY RESERVE CENTER	0.	0.	9620.	0.	0.	0.	REFUSE COLLECTED
FAA H	0.	0.	0.	0.	0.	0.	HOMING BEACON
FAA OM	0.	0.	0.	0.	0.	0.	OUTER MARKER
OHIO							
CUYAHOGA							
SHAKER HTS							
FAA RML	0.	0.	0.	0.	0.	0.	RADAR MICRO-WAVE LINK

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO CUYAHOGA STRONGSVILLE							
FAA VOR	0.	0.	0.	0.	0.	0.	DIRECTION DETERMINER
OHIO GEAUGA BURTON							
FAA VTAC	0.	0.	0.	0.	0.	0.	RANGE/DIRECT DETERMINER
OHIO GEAUGA CHARDON							
PO S STREET & RANDALL CT	0.	0.	875.	0.	0.	0.	RECENT GAS CONVERT
FAA RMLR	0.	0.	0.	0.	0.	0.	RADAR MICRO-WAVE LINK

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO							
GEAUGA							
SOUTH RUSSEL							
AF THOMPSON GAP	0.	0.	0.	0.	0.	0.	RADAR (IN EXCESS)
OHIO							
LAKE							
FAIRPORT							
USCG STATION	0.	0.	0.	10725.	0.	0.	REFUSE COLLECTED
USCG DWELLINGS	0.	0.	1416.	0.	0.	0.	REFUSE COLLECTED
USCG BREAK-WATER LIGHT	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID
OHIO							
LAKE							
PAINESVILLE							
NIKE 11	0.	0.	7448.	0.	0.	0.	REFUSE COLLECTED

TABLE I

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LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ARMY RESERVE CENTER	0.	0.	686.	0.	0.	0.	REFUSE COLLECTED
AIR PRODUCTS INC--AFP	0.	0.	0.	0.	0.	0.	DIAMOND ALKALAI OWNS
PO N PARK PLACE	0.	0.	2895.	0.	0.	0.	RECENT GAS CONVERT
OHIO LORAIN AMHERST							
PO PARK AVENUE	0.	0.	837.	0.	0.	0.	REFUSE COLLECTED
OHIO LORAIN COLUMBIA STA							
FAA RMLR	0.	0.	0.	0.	0.	0.	RADAR MICRO-WAVE LINK

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO							
LORAIN							
ELYRIA							
PO BROAD STREET	0.	0.	0.	0.	0.	95.	S=2.45% A=6.80%
FAA VTAC	0.	0.	0.	0.	0.	0.	RANGE/DIRECT DETERMINER
OHIO							
LORAIN							
GRAFTON							
FAA H	0.	0.	0.	0.	0.	0.	HOMING BEACON
OHIO							
LORAIN							
LORAIN							
NAVY RESERVE TRAINING CTR	0.	0.	3361.	0.	0.	0.	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
PO BROADWAY	0.	0.	1529.	0.	0.	0.	REFUSE COLLECTED
USCG STATION	0.	0.	3141.	0.	0.	0.	REFUSE COLLECTED
USCG W BREAK -WATER LIGHT	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID
USCG DWELLINGS	0.	0.	732.	0.	0.	0.	REFUSE COLLECTED
OHIO							
LORAIN							
OBERLIN							
PO S MAIN STREET	0.	50.	303.	0.	0.	0.	SMALL INCINERATOR

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA ARTCC	0.	300.	5806.	0.	0.	0.	CONTROL CENTER
OHIO MEDINA MEDINA FEDERAL BUILDING	0.	0.	1260.	0.	0.	0.	REFUSE COLLECTED
FAA RMLR	0.	0.	0.	0.	0.	0.	RADAR MICRO-WAVE LINK
OHIO MEDINA WADSWORTH PO BROAD STREET	0.	0.	551.	0.	0.	0.	REFUSE LANDFILLED
OHIO PORTAGE AURORA FAA OM	0.	0.	0.	0.	0.	0.	OUTER MARKER

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO PORTAGE KENT							
PO S WATER & W ERIE	0.	0.	1175.	0.	0.	0.	RECENT GAS CONVERT
FAA VTAC	0.	0.	0.	0.	0.	0.	RANGE/DIRECT DETERMINER
OHIO PORTAGE MANTUA							
POST OFFICE-FEDERAL BLDG	0.	0.	0.	5358.	0.	0.	REFUSE COLLECTED
OHIO PORTAGE RAVENNA							
ARMY RESERVE CENTER	0.	0.	0.	0.	0.	0.	GIVEN TO KENT STATE

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ARMY AMMO PLANT	14000.	0.	0.	115856.	2614467.	3036.	AMMUNITION LOADING
PO CHESTNUT STREET	0.	0.	2378.	0.	0.	0.	REFUSE COLLECTED
OHIO PORTAGE WAYLAND							
COE W BRANCH RESERVOIR	0.	0.	0.	6120.	0.	0.	REFUSE COLLECTED
OHIO STARK ALLIANCE							
PO S ARCH AVENUE	0.	0.	1428.	0.	0.	0.	REFUSE COLLECTED
OHIO STARK CANTON							
NAVY RESERVE TRAINING CTR	0.	0.	4121.	0.	0.	0.	REFUSE COLLECTED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ARMY RESERVE CENTER	0.	0.	2934.	0.	0.	0.	REFUSE COLLECTED
POST OFFICE	0.	0.	0.	0.	0.	129.	S=2.62% A=5.71%
POST OFFICE-FEDERAL BLDG	0.	0.	0.	0.	0.	0.	JUST BEGAN OPERATION
POST OFFICE PARKING LOT	0.	0.	0.	0.	0.	0.	ABANDONED
FAA VTAC	0.	0.	0.	0.	0.	0.	RANGE/DIRECT DETERMINER
OHIO STARK LOUISVILLE							
PO E MAIN STREET	0.	0.	703.	0.	0.	0.	NO REFUSE

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO STARK MASSILLON							
COE MASILLON LPP	200.	0.	0.	0.	0.	0.	SPACE HEAT FURNISHED
PO ERIE STREET	0.	0.	1464.	0.	0.	0.	REFUSE COLLECTED
OHIO STARK MINERVA							
PO W HIGH STREET	0.	0.	0.	0.	0.	35.	S=2.15% A=5.95%
OHIO STARK NORTH CANTON							
AIR NATIONAL GUARD	0.	0.	0.	0.	0.	0.	NOW ARMY AVIATION SUP

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA ASR	0.	0.	0.	0.	0.	0.	SHORT RANGE RADAR
FAA MM	0.	0.	0.	0.	0.	0.	MIDDLE MARKER
FAA OM	0.	0.	0.	0.	0.	0.	OUTER MARKER
FAA RTR	0.	0.	0.	0.	0.	0.	TRANSMITTER/ RECEIVER
FAA LOC	0.	0.	0.	0.	0.	0.	HORIZONTAL GUIDANCE
FAA ALSAF	0.	0.	0.	0.	0.	0.	APPROACH LIGHT SYSTEM

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA RUNEL	0.	0.	0.	0.	0.	0.	NAVIGATIONAL AID
OHIO STARK PARIS							
FAA RMLR	0.	0.	0.	0.	0.	0.	RADAR MICRO-WAVE LINK
OHIO SUMMIT AKRON							
NAVY RESERVE TRAINING CTR	0.	0.	5297.	0.	0.	0.	REFUSE COLLECTED
ARMY RESERVE CENTER 01	0.	0.	3300.	0.	0.	0.	REFUSE COLLECTED
ARMY RESERVE CENTER 02	0.	0.	3430.	0.	0.	0.	REFUSE COLLECTED

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TABLE I

FUEL USAGE AND REFUSE-DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
POST OFFICE	0.	0.	0.	0.	0.	0.	PURCHASE STEAM
FAA RTR	0.	0.	0.	0.	0.	0.	TRANSMITTER/ RECEIVER
FAA LOC	0.	0.	0.	0.	0.	0.	HORIZONTAL GUIDANCE
OHIO SUMMIT AULTMAN							
FAA GS	0.	0.	0.	0.	0.	0.	VERTICAL GUIDANCE
OHIO SUMMIT BARBERTON							
PO WOOSTER ROAD	0.	0.	1496.	0.	0.	0.	NO REFUSE

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TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO							
SUMMIT							
CUYAHOGA FLS							
PO SECOND STREET	0.	0.	1078.	0.	0.	0.	NO REFUSE

(1) FUEL USE ESTIMATE ON BASIS OF 0.15 MCF/SQ. FT. (FLOOR AREA)

TABLE II

ANNUAL FUEL USE BY FEDERAL FACILITIES

	COAL (TONS)	RESID OIL (GAL)	DIST OIL (GAL)	GAS (MCF)
OHIO				
CUYAHOGA	19574.	36000.	2167194.	1191379.
GEAUGA	0.	0.	0.	875.
LAKE	0.	0.	10725.	12445.
LORAIN	95.	0.	0.	16309.
MEDINA	0.	0.	0.	1811.
PORTAGE	3086.	2614467.	127314.	3553.
STARK	163.	0.	0.	10650.
SUMMIT	0.	0.	0.	14601.
TOTAL	22918.	2650467.	2305233.	1241623.

TABLE III

FEDERAL CONTRIBUTION TO AIR POLLUTION
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
OHIO					
CUYAHOGA	1100.	370.	100.	1100.	10.
GEAUGA	1.	1.	1.	1.	1.
LAKE	1.	1.	1.	1.	1.
LORAIN	4.	1.	3.	5.	1.
MEDINA	1.	1.	1.	1.	1.
PORTAGE	390.	80.	30.	230.	30.
STARK	8.	1.	5.	2.	1.
SUMMIT	1.	1.	1.	1.	1.
STATE TOTAL	1500.	450.	190.	1300.	40.
AREA TOTAL	1500.	450.	190.	1300.	40.

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TABLE IV

FEDERAL POINT SOURCES
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
OHIO					
CUYAHOGA					
VA HOSPITAL	500.	100.	3.	440.	1.
LEWIS RESEARCH CTR	550.	180.	20.	620.	5.
PORTAGE					
ARMY AMMO PLANT	390.	80.	80.	230.	30.

NOTE: A POINT SOURCE IS AN INSTALLATION WHICH EMITS OVER 100 TONS/YEAR OF ONE OR MORE OF THE FIVE POLLUTANTS.

TABLE V

COAL-FIRED BOILERS IN VIOLATION OF 42 CFR 76.4

INSTALLATION NAME	BOILER SIZE (MMBTU/HR)	NUMBER	COAL USED (TONS/YEAR)	PART. EMITTED (TONS/YEAR)	PART. ALLOWED (TONS/YEAR)
VA HOSPITAL	566.0	2.	4866.0	221.4	21.9
LEWIS RESEARCH CTR	39.6	2.	4716.0	306.5	31.7
PO BROAD STREET	1.0	1.	95.0	4.2	1.2
ARMY AMMO PLANT	30.0	2.	1543.0	100.3	10.8
PO W HIGH STREET	0.6	1.	35.0	1.4	0.5

TABLE VI

ABATEMENT PROGRAM FOR FEDERAL PROBLEM AREAS

A. Problem
B. Abatement measures proposed in five year plan*
C. Abatement measures needed but not reported in the plan
D. Abatement measures accomplished or in progress

OHIO

CUYAHOGA

BRECKSVILLE

VA Hospital, 10000 Brecksville Road
A. 1. Coal-fired boiler plant, 2.7% S, 7.0% ash
2. Two single-chamber incinerators
B. 1. To be converted to natural gas (uninterruptible) with #2 oil standby in FY '71
2. Scrubbers to be added
D. 1,2 All modifications in the engineering or design stage

CLEVELAND

Army Tank-Automotive Plant
A. Single-chamber, top-loaded incinerator
C. Needs to be replaced or upgraded to meet Federal specifications

AF Plant 47
A. Emissions from heavy forging operations
C. Need to meet the local ordinance requirements (probably would require a stack test)

Lewis Research Center, NASA
A. Coal, 3% S, 10% ash
B. Plans are to replace one of 27.7 MMBTU/hr gas-fired boilers with a 70 MMBTU/hr unit so that natural gas will be the primary fuel and coal the standby

*1967-72 plan per Executive Order 11282, superseded by Executive Order 11507.

GEAUGA

CHARDON

Post Office, South Street & Randall Court
A. Coal-fired boiler
D. Converted to natural gas

LAKE

PAINESVILLE

Post Office, North Park Place
A. Coal-fired boiler
D. Converted to natural gas

LORAIN

ELYRIA

Post Office, Broad Street
A. Coal-fired boiler
C. Need fuel conversion or better grade of coal

OBERLIN

Post Office, South Main Street
A. Single-chamber incinerator
C. Needs to be replaced or upgraded to meet Federal specifications

Air Route Traffic Control Center
A. Single-chamber incinerator
C. Need to be replaced or upgraded to meet Federal specifications

PORTAGE

RAVENNA

Army Ammunition Plant

A. 1. Coal-fired boilers, 3.50% S, 10.0% ash
2. #6 fuel oil boilers, 1.75% S
3. Open-burning of explosive contaminated wood and trash

B. 1. Electrostatic precipitator to be placed at Powerhouse #6 after AEHA performs stack test and confirms need and design criteria

C. 2. Need lower sulfur fuel oil

D. 3. Presently in compliance with Army regulations

STARK

CANTON

Post Office

A. Coal-fired boiler

C. Need fuel conversion or better grade of coal

TABLE VII

POLLUTANT REDUCTION GOALS
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
OHIO					
CUYAHOGA	767.	80.	9.	746.	3.
GEAUGA	0.	0.	0.	0.	0.
LAKE	0.	0.	0.	0.	0.
LORAIN	0.	0.	0.	0.	0.
MEDINA	0.	0.	0.	0.	0.
PORTAGE	neg.	neg.	neg.	190.	neg.
STARK	0.	0.	0.	0.	0.
SUMMIT	0.	0.	0.	0.	0.
STATE TOTAL	767.	80.	9.	936.	3.
AREA TOTAL	767.	80.	9.	936.	3.

NOTE: THESE REDUCTIONS WILL RESULT FROM ABATEMENT MEASURES PROPOSED, BUT NOT YET ACCOMPLISHED, IN THE FIVE-YEAR PLAN.

REFERENCES AND NOTES

1. Duprey, R.L., Compilation of Air Pollutant Emission Factors, Public Health Service Publication No. 999-AP-42, 1968.

   All calculated emissions are based on these factors.

2. Report for Consulation on the Greater Metropolitan Cleveland Intrastate Air Quality Control Region, Public Health Service, February, 1969.

   Data on emissions from all sources used to calculate percent government contribution were obtained from this report.

3. Clean Air Act, as amended (42 U.S.C. 1857 - 1857L) Sec 107, Sec 111. November 21, 1967.

4. Executive Order 11507, Prevention, Control, and Abatement of Air and Water Pollution at Federal Facilities, February 4, 1970.

5. Title 42 - Public Health, Chapter 1, Subchapter F, Part 76, June 2, 1966.

6. Bureau of the Budget Circular A-76, August 6, 1966.